CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date:09.10.2020

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID: :Cement (Dalmia 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : September - 2020

Date of Testing : 07.10.2020 to 09.10.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date : 09.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.
Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing : 09.10.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	9.60	9.60	90.4	90-100
2.36	108	10.80	20.40	79.6	75-100
1.18	182	18.20	38.60	61.4	55-90
600 Micron	255	25.50	64.10	35.9	35-59
300 Micron	173	17.30	81.40	18.6	8-30
150 Micron	155	15.50	96.90	3.1	0-10

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date : 09.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Date of Testing : 09.10.2020

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	202	1.35	1.35	98.65	95-100
20	8436	56.24	57.59	42.41	30-70
10	3102	20.68	78.27	21.73	10-35
4.75	2595	17.30	95.57	4.43	0-5

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021 Date : 09.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Date of Testing : 09.10.2020

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	212	4.2	4.2	95.8	95-100
10	2699	54.0	58.2	41.8	25-55
4.75	1853	37.1	95.3	4.7	0-10

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date : 09.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Date of Testing : 09.10.2020

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	20	2.00	2.00	98.0	95-100
2.36	18	1.80	3.80	96.2	95-100
1.18	26	2.60	6.40	93.6	90-100
600 Micron	84	8.40	14.80	85.2	80-100
300 Micron	237	23.70	38.50	61.5	20-65
150 Micron	504	50.40	88.90	11.1	0-15

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date : 09.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Date of Testing : 09.10.2020

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	17	1.70	3.90	96.1	70-100
600 Micron	73	7.30	11.20	88.8	40-100
300 Micron	241	24.10	35.30	64.7	5-70
150 Micron	519	51.90	87.20	12.8	0-15

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date 09.10.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of Work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Steel Dia/Length: 8mm,10mm" TMT"

Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 09.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	506	618	1.22	21
2	TMT	10	0.617	513	607	1.18	16.5
3	TMT	12	0.888	529	629	1.19	20

Note:

1. The material is satisfied as per the requirements.

AEE

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.178	344.8	15.32
2	23.10.2020	30.10.2020	8.140	356.9	15.86
3	23.10.2020	30.10.2020	8.098	367.1	16.32

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.059	377.1	16.76
2	23.10.2020	30.10.2020	8.086	354.9	15.77
3	23.10.2020	30.10.2020	8.041	366.8	16.30

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.
Agency	**: Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of the work	: Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.101	350.2	15.56
2	23.10.2020	30.10.2020	8.073	378.7	16.83
3	23.10.2020	30.10.2020	8.045	363.1	16.14

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.093	363.9	16.17
2	23.10.2020	30.10.2020	8.124	350.8	15.59
3	23.10.2020	30.10.2020	8.167	342.2	15.21

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.100	377.9	16.80
2	23.10.2020	30.10.2020	8.089	368.2	16.36
3	23.10.2020	30.10.2020	8.113	355.3	15.79

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 02.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	02.11.2020	8.051	345.2	15.34
2	26.10.2020	02.11.2020	8.019	361.5	16.07
3	26.10.2020	02.11.2020	8.099	355.9	15.82

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 02.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	02.11.2020	8.011	381.3	16.95
2	26.10.2020	02.11.2020	8.035	360.5	16.02
3	26.10.2020	02.11.2020	8.059	372.2	16.54

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 02.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	02.11.2020	8.120	361.5	16.07
2	26.10.2020	02.11.2020	8.065	374.8	16.66
3	26.10.2020	02.11.2020	8.034	383.9	17.06

Note:

1. The material is satisfied as per the requirements.

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 02.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	02.11.2020	8.130	390.2	17.34
2	26.10.2020	02.11.2020	8.106	361.3	16.06
3	26.10.2020	02.11.2020	8.157	375.5	16.69

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 02.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	02.11.2020	8.069	383.5	17.04
2	26.10.2020	02.11.2020	8.051	370.6	16.47
3	26.10.2020	02.11.2020	8.037	364.5	16.20

Note:

1. The material is satisfied as per the requirements.

For CIVIL-QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 04.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2020	04.11.2020	8.190	358.2	15.92
2	28.10.2020	04.11.2020	8.144	373.7	16.61
3	28.10.2020	04.11.2020	8.081	389.5	17.31

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 04.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2020	04.11.2020	8.083	370.3	16.46
2	28.10.2020	04.11.2020	8.062	354.2	15.74
3	28.10.2020	04.11.2020	8.017	369.1	16.40

Note:

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 04.11.2020

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2020	04.11.2020	8.077	343.9	15.28
2	28.10.2020	04.11.2020	8.123	358.2	15.92
3	28.10.2020	04.11.2020	8.149	366.7	16.30

Note:

1. The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/DM/16/2020-2021

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2020	04.11.2020	8.150	366.6	16.29
2	28.10.2020	04.11.2020	8.114	357.2	15.88
3	28.10.2020	04.11.2020	8.093	342.1	15.20

Note:

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 04.11.2020

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Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

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Cross Sectional Area : 22500 mm^2

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Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2020	04.11.2020	8.118	353.2	15.70
2	28.10.2020	04.11.2020	8.149	364.8	16.21
3	28.10.2020	04.11.2020	8.182	348.2	15.48

Note:

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 20.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.

Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.

Name of the work : Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.055	504.2	22.41
2	23.10.2020	20.11.2020	8.019	496.5	22.07
3	23.10.2020	20.11.2020	8.037	482.2	21.43

Note:

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Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.174	500.8	22.26
2	23.10.2020	20.11.2020	8.162	512.3	22.77
3	23.10.2020	20.11.2020	8.154	491.6	21.85

Note:

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Cross Sectional Area : 22500 mm^2

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Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.017	520.3	23.12
2	23.10.2020	20.11.2020	8.029	511.8	22.75
3	23.10.2020	20.11.2020	8.046	506.3	22.50

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Date: 20.11.2020

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.095	498.3	22.15
2	23.10.2020	20.11.2020	8.072	486.5	21.62
3	23.10.2020	20.11.2020	8.051	507.2	22.54

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 20.11.2020

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Client	**: Assistant Executive Engineer,** Yeshwanthpur Sub Division, BBMP, Bangalore.
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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.129	480.3	21.35
2	23.10.2020	20.11.2020	8.154	509.2	22.63
3	23.10.2020	20.11.2020	8.176	496.5	22.07

Note:

1. The material is satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 23.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	23.11.2020	8.035	502.3	22.32
2	26.10.2020	23.11.2020	8.016	497.8	22.12
3	26.10.2020	23.11.2020	8.089	518.4	23.04

Note:

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Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	23.11.2020	8.112	510.4	22.68
2	26.10.2020	23.11.2020	8.149	500.3	22.24
3	26.10.2020	23.11.2020	8.186	494.6	21.98

Note:

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2020	23.11.2020	8.107	505.4	22.46
2	26.10.2020	23.11.2020	8.084	492.3	21.88
3	26.10.2020	23.11.2020	8.135	486.7	21.63

Note:

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